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PUB-NO: JP403066613A
DOCUMENT-IDENTIFIER: JP 03066613 A
TITLE: FORMATION OF ULTRAFINE PARTICLE OF SLIGHTLY SOLUBLE DRUG

PUBN-DATE: March 22, 1991

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INT-CL (IPC): A61K 9/14; A61J 3/02

ABSTRACT:

PURPOSE: To make a slightly soluble drug into ultrafine particles and to improve and promote absorption of slightly soluble drug in digestive tube by blending a low-molecular saccharide with the slightly soluble drug and grinding.

CONSTITUTION: A mixture of a slightly soluble drug and a saccharide (e.g. glucose) or a sugaralcohol is ground by high-speed stirring or impact grinding and the slightly soluble drug is made into ultrafine particles having ≤1 micron. 1 pts.wt. of the main drug is used with 1-50 pts.wt. saccharide. The slightly soluble drug has ≤5mg/ml water solubility at 20°C and has insufficient absorption when made into solid preparation by conventional pharmaceutical manufacturing. The drug is nifedipine, indomethacin, cortisone, etc. The ultrafine particles of the drug is contained as an active ingredient and can be pharmaceutically manufactured.

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